

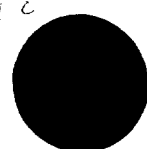
nsanco

TO: ~~W. G. Krummrich~~ FYI

ADVISED STURM THAT IT
LOOKS OK.

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FROM : J. A. Sturm G4NC - 8260
(NAME-LOCATION-PHONE)

file

DATE : September 28, 1982

CC: ~~M. R. Foreman~~

SUBJECT : MAIN SOUTH TRUNK SEWER
PIR CEA 3808 - W. G. KRUMMRICH

S. R. Hinds
C. E. Powell
W. L. Smull-1740
S. H. Styles
W. W. Varnado
R. L. Wiese-CS7R

REFERENCE :

TO : W. C. Engman-1740
R. L. Nelson-1740
T. G. O Connell-CS7V
B. J. Sevey-CS7L

File

- COMPANY CONFIDENTIAL -

A PIR for a new Main South Trunk Sewer at W. G. Krummrich is attached for your review. Please return your comments to me by October 5.

J. A. Sturm
J. A. Sturm

bb
attachment

Main South Truck Sewer PIR
CEA 3808, 9-28-82 & 8-12-82

MCO 6360443

Monsanto

PIR No. 3808 PIRDT Date August 12, 1982
Organization Monsanto Chemical Intermediates
Division Manufacturing
Business Group Site
Strategic Planning Unit N/A
Location W. G. Krummrich
*Based on Facility Deployment Guidelines

PROJECT INITIATION REQUEST

PROJECT TITLE MAIN SOUTH TRUNK SEWER

PROJECT CLASSIFICATION Support Facilities - Equipment Replacement

NEW INVESTMENT EXPECTED \$6.5M ± 30% CAPACITY PLANNED N/A

REFERENCE: Approved BDP N/A LRP 1982 - pg. 169

EXPECTED DATES: Project Definition Report 11/82 AR SUBMISSION 1Q/83

KEY STRATEGIC PURPOSE

This project will provide a new 42" Monsanto owned sewer to carry Krummrich plant effluent currently handled by two Village of Sauget sewers. The existing sewers are badly deteriorated primarily due to the acidity of Krummrich effluent and are subject to collapse/failure which would cause significant manufacturing loss.

BACKGROUND

The two Sauget sewers convey nearly all Krummrich effluent and the WCK plant waste constitutes an average of 90% of the normal 4900 GPM flow rate for both sewers. The one 24" main is over 50 years-old and the other 30"/36" main is nearly 40 years-old. As mentioned, the sewers are badly deteriorated; many of the connection boxes have collapsed to some extent and repairs would not be cost effective for continued acid use.

We are proposing to separate Monsanto's waste into a new 'acid proof' sewer and let the Village of Sauget make simple, non-acid type repairs (estimated at \$100k annually) to one of their sewers for municipal use. Currently, pollution monitoring/control at Krummrich is greatly complicated and compromised by the mixing of plant effluents with others' waste. A single effluent stream from Krummrich would reduce Monsanto's regulatory liabilities. Monsanto will bear some portion of the repair costs on the Sauget sewer through municipal tax payments over the next several years.

SUBMITTED BY:

MCO 6360444

E. N. Brasfield, G.M., Mfg. Div., MCI Date

R. G. Potter, Managing Director, MCI Date

ACCEPTED:

R. J. Mahoney, President Date

ALTERNATIVES1. Do Nothing:

This alternative is not feasible as the present sewer mains continue to deteriorate. As sewer boxes fail, ground cave-ins occur and eventually this could result in total blockage.

2. Village of Sauget Repair Existing Sewer Mains

This alternative is not cost effective since it is very unlikely that the repairs could withstand continued acid use for more than a few years and the cost to Monsanto would be at least as much as the proposed project. Without a new sewer to divert flow, existing sewage would have to be pumped around each repair site at considerable cost.

3. Village of Sauget Install a New Sewer Main

This alternative is essentially the same as the existing project except that execution would be handled by Sauget. Monsanto's outlay might be reduced to 90% of the \$6.5M cost, but we would have potentially more to lose by giving up control. This project is highly vulnerable due to deep excavations and unpredictable water/soil conditions which require close management in order to control escalations. Further, Monsanto's expenditure would still be considered capital, not expense. This alternative is not recommended.

SCOPE

This project proposes to install a new 42" 'acid proof' trunk sewer which will collect the outfall of many small sewers within the Krummrich plant. The new sewer will be roughly 1700 feet long and will be tied into the two Sauget sewers. This permits Sauget to temporarily divert their total flow through the new sewer and minimize repair costs on the old sewers.

Mechanical completion is forecast for first quarter 1985 based on first quarter 1983 approval.

OTHER

This project was listed in the April 1982 Capital Forecast at \$2.0M for second quarter 1982 consideration. The escalation/delay is due to a more detailed definition of project design and execution details.

This project is consistent with the facilities deployment guidelines for the W. G. Krummrich plant and will potentially qualify for IRB financing.

MCO 6360445